

Message Text

UNCLASSIFIED

PAGE 01 STATE 093521

12

ORIGIN OES-06

INFO OCT-01 EUR-12 ISO-00 NSF-02 NAS-01 /022 R

DRAFTED BY OES/APT/SEP:WAROOT:GEM

APPROVED BY OES/APT/SEP:WAROOT

EUR/SOV:WVEALE

----- 120696

R 170106Z APR 76

FM SECSTATE WASHDC

TO AMEMBASSY MOSCOW

UNCLAS STATE 093521

E.O. 11652: N/A

TAGS: TGEN, UR

SUBJECT: S&T: PHYSICS 01.08

1. FYI SKRYABIN NOVEMBER 3 LETTER TO HAMMOND STATES THAT
JOINT PINES-ANISIMOV JULY 9 LETTER TO THE ACADEMIES

"DO NOT, FOR THE TIME BEING, CONTAIN A CONCRETE,
CONSTRUCTIVE PROGRAM OF COLLABORATION. IN THEIR REPORT
THE ENTIRE MATTER IS REDUCED, BASICALLY, TO THE FORMATION
OF A COMMISSION OF EXPERTS IN SOLID STATE PHYSICS AND
RELATIVISTIC ASTROPHYSICS, WHICH OUR ACADEMY, AS YOU
KNOW, HAS ALREADY DECLINED. ... FURTHERMORE, OUR
SCIENTISTS ... PROPOSE THAT THE EFFORTS OF SCIENTISTS IN
THE AREAS OF EXPERIMENTAL PHYSICS AS WELL AS THEORETICAL
PHYSICS BE COMBINED." END FYI.

2. REQUEST EMBASSY TRANSMIT FOLLOWING TO DR. S. I.
ANISIMOV, L. D. LANDAU INSTITUTE FOR THEORETICAL PHYSICS,
VOROBIEVSKOYE CHAUSEE 2, MOSCOW B-334.

QUOTE I WAS PLEASED TO READ YOUR EXCELLENT
PRESENTATION AT THE FOURTH MEETING OF THE JOINT
COMMISSION LAST OCTOBER, IN WHICH YOU SUGGESTED RESEARCH
ON THREE TOPICS: SUPERCONDUCTIVITY FOR ONE-DIMENSIONAL

UNCLASSIFIED

UNCLASSIFIED

PAGE 02 STATE 093521

SYSTEMS; SOLID HYDROGEN UNDER HIGH PRESSURE AND PHASE

TRANSITION TO METALLIC HYDROGEN; AND SUPERFLUIDITY OF HELIUM 3. MY CONSULTATIONS WITH A NUMBER OF AMERICAN PHYSICISTS INDICATE A CONSIDERABLE INTEREST IN SUPERCONDUCTIVITY FOR ONE-DIMENSIONAL SYSTEMS AND SUPERFLUIDITY OF HELIUM 3. HOWEVER, THERE IS RELATIVELY LITTLE INTEREST AMONG US THEORISTS IN THE METALLIC PHASE OF HYDROGEN BECAUSE OF INDICATIONS THAT, IF SUCH A PHASE COULD BE MADE, IT WOULD NOT BE STABLE. THERE ARE OTHER AREAS WHICH SEEM TO BE PROMISING FOR JOINT RESEARCH, SUCH AS SCALING IN CONDENSED MATTER THEORY AND PARTICLE PHYSICS; SOLITONS IN PLASMAS, CONDENSED MATTER, AND PARTICLE PHYSICS; QUARK CONFINEMENT (LIKELY RELATED TO BOTH OF THE ABOVE TOPICS); AND PROBLEMS IN PLASMA ASTROPHYSICS WHICH RELATE TO PLANETARY, PULSAR, AND ACCRETING NEUTRON STAR MAGNETOSPHERES. IT HAS ALSO BEEN SUGGESTED THAT, IN ADDITION TO THE INSTITUTES OF YOUR ACADEMY, COOPERATION INVOLVE OTHERS, SUCH AS THE KURCHATOV INSTITUTE FOR ATOMIC ENERGY, THE INSTITUTE OF EXPERIMENTAL AND THEORETICAL PHYSICS, AND THE INSTITUTE OF PHYSICS OF HIGH ENERGY (SERPUKOV).

I NOTE FROM DR. SKRYABIN'S NOVEMBER 3 LETTER TO DR. HAMMOND THAT YOU HAVE BEEN ASKED TO CONSULT WITH SOVIET SCIENTISTS WITH THE GOAL OF DEFINING PROGRAMS OF COLLABORATION IN THE AREA OF THEORETICAL AND EXPERIMENTAL PHYSICS AND TO REACH PRELIMINARY AGREEMENT ABOUT IT WITH ME. IF YOUR CONSULTATIONS HAVE PROCEEDED FAR ENOUGH TO MAKE IT USEFUL FOR US TO GET TOGETHER IN THE NEAR FUTURE, IT WOULD BE CONVENIENT FOR ME TO COME TO MOSCOW ABOUT MAY 15-18, SINCE I WILL BE LECTURING IN ENGLAND THE PRECEDING WEEK.

PLEASE LET ME KNOW IF IT WOULD BE USEFUL FOR ME TO VISIT MOSCOW IN MAY TO DISCUSS HOW WE MIGHT BEST PROCEED. A MORE DETAILED LETTER FOLLOWS. YOURS SINCERELY, DAVID PINES, DEPARTMENT OF PHYSICS, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS 61801, USA. END QUOTE. ROBINSON

UNCLASSIFIED

NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: SCIENTIFIC COOPERATION, TEXT, PHYSICS, PUBLIC CORRESPONDENCE
Control Number: n/a
Copy: SINGLE
Draft Date: 17 APR 1976
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Authority: n/a
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 JAN 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1976STATE093521
Document Source: CORE
Document Unique ID: 00
Drafter: WAROOT:GEM
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Film Number: D760146-0811
From: STATE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1976/newtext/t19760450/aaaabpxc.tel
Line Count: 99
Locator: TEXT ON-LINE, ON MICROFILM
Office: ORIGIN OES
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 2
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Review Action: RELEASED, APPROVED
Review Authority: oatisao
Review Comment: n/a
Review Content Flags:
Review Date: 06 JUL 2004
Review Event:
Review Exemptions: n/a
Review History: RELEASED <06 JUL 2004 by SilvaL0>; APPROVED <17 SEP 2004 by oatisao>
Review Markings:

Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
04 MAY 2006

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: S&T: PHYSICS 01.08
TAGS: TGEN, UR, US, (ANISIMOV, S I)
To: MOSCOW
Type: TE
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 04 MAY 2006